

## Publications 2008

*Bambach, M.; Taleb-Araghi, B.; Hirt, G.; Reimers, W.:*

**Error control in explicit finite element simulation of incremental sheet metal forming**

In: Proceedings of the 7<sup>th</sup> International Conference and Workshop on Numerical Simulation of 3D Sheet Metal Forming Processes, edited by Pavel Hora, Eidgenössische Technische Hochschule Zürich, (2008), pp. 715-720

*Epishin, A.; Link, T.; Nazmy, M.; Staubli, M.; Klingelhöffer, H.; Nolze, G.:*

**Microstructural degradation of CMSX-4: kinetics and effect on mechanical properties**

In: Proceedings of 11<sup>th</sup> International Symposium "Superalloys 2008", edited by Roger C. Reed, Kenneth A. Green, Pierre Caron, Timothy P. Gabb, Michael G. Fahrman, Eric S. Huron, Shiela A. Woodard, Warrendale: TMS, (2008), pp. 725-731

*Friedrich, F.; Sieber, I.; Klaus, M.; Genzel, Ch.:*

**Pulsed-laser deposition of ZnO thin-films on MgO substrates**

Physica status solidi (c) 5, (10), (2008), pp. 3288-3292

*Gibmeier, J.; Klaus, M.; Scholtes, B.:*

**In-situ investigation of the deformation behaviour of the wrought Mg base alloy AZ31 using energy dispersive synchrotron diffraction**

Materials Science Forum 571-572, (2008), pp. 195-200

*Hasse, B.; Rahn, H.; Odenbach, S.; Beckmann, F.; Reimers, W.:*

**First results of the DITO-experiment at the HARWI II beamline at GKSS/DESY**

Materials Science Forum 571-572, (2008), pp. 201-206

*Holzschuh, H.; Klaus, M.; Genzel, Ch.:*

**Influence of the residual stress state on the toughness of CVD-coated cemented cutting tools**

Advances in Powder Metallurgy & Particulate Materials 2, Part 6, (2008), pp. 6/100-108

*Isaac, A.; Sket, F.; Reimers, W.; Camin, B.; Sauthoff, G.; Pyszalla, A. R.:*

**In situ 3D quantification of the evolution of creep cavity size, shape and spatial orientation using synchrotron X-ray tomography**

Materials Science and Engineering A 478, (2008), pp. 108-118

*Karlson, M.; Weber, S.; Zaree, S. R. Alavi; Müller, S.; Theisen, W.; Reimers, W.; Pyszalla, A. R.:*

**Manufacturing, microstructure and wear resistance of novel hot extruded Fe based metal matrix composites**

Powder Metallurgy 51, (1), (2008), pp. 31-37

*Klaus, M.; Genzel, Ch.; Holzschuh, H.:*

**Residual stress depth profiling in complex hard coating systems by X-ray diffraction**

Thin Solid Films 517, (3), (2008), pp. 1172-1176

*Klingelhöffer, H.; Epishin, A.; Link, T.; Portella, P.D.:*

**Low cycle fatigue of the single crystal nickel-base superalloy CMSX-4: anisotropy and effect of creep damage**

In: Sixth International Conference on Low Cycle Fatigue, edited by P. D. Portella, T. Beck, M. Okazaki, (2008), pp. 403-408

*Müller, S.; Müller, K.; Reimers, W.:*

**Modifications of the extrusion process of magnesium alloys for improved mechanical properties**

Key Engineering Materials 367, (2008), pp. 9-16

*Müller, S.; Müller, K.; Kumar, M.:*

**Indirect extrusion of rapidly solidified Al-base alloy powder/ flakes and deformation behavior of the extrudate**

Proceedings of the Ninth International Aluminium Extrusion Technology Seminar, Volumen II, (2008), S. 405-410

*Reetz, B.; Reimers, W.:*

**Hot extrusion of  $\alpha$  and  $\alpha/\beta$ -brass alloys**

International Journal of Materials Research, 99, (7), (2008), pp. 787-794

*Reimers, W.; Pyzalla, A. R.; Schreyer, A.; Clemens, H.:*

**Neutrons and synchrotron radiation in engineering materials science**

WILEY-VCH, ISBN 978-3-527-31533-8

*Reimers, W.:*

**Einsatz für tragende Teile im Automobil**

lightweightdesign 6, (2008), pp. 15

*Reimers, W.:*

**Alu ummantelt Magnesium**

Automotive Materials 4, (6), (2008), pp. 42-43

*Silva, P. A.; Weber, S.; Karlsohn, M.; Theisen, W.; Reimers, W., Pyzalla, A. R.:*

**Interface characterization of abrasion resistant coatings co-extruded on steel substrates**

Steel Research International 79, (11), (2008), pp. 885-894